



Hello

Welcome to the Nautel Navigator newsletter. In this issue we have SONAR news regarding a new amplifier, photos from recent swimmer detection trials and an Asian Navy install; a NAVTEX customer report; as well as NDB and DGPS updates..

Please note we're going to be at the following shows: DEFSEC Atlantic in Canada; OSEA in Singapore; Expo Naval in Chile; and World ATM Congress in Spain.

We would love to hear from you. Please send input for future topics to nav@nautel.com. Thank you!

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CSDS-85 Live Harbour Performance Testing June 2016

The Nautel C-Tech CSDS-85 Swimmer Detection Sonar was recently put through its paces in the St. Lawrence River not far from the Nautel C-Tech factory in Cornwall, Ontario.

One of Nautel C-Tech's Asian customers who recently purchased three of the sophisticated systems requested some recent performance data to validate the capabilities of the system prior to undertaking additional testing in a challenging Asian location. In a process that was more complicated than it sounds, the system was transported to the river, deployed on the river bottom, and divers employed to act as targets.



Trial results, recorded for posterity, were no surprise for the intrepid Nautel C-Tech technical staff who were able to detect targets at over one kilometer in range as they conducted their "attacks". Mission accomplished.

[View the Photo Gallery >](#)

PNA Refits Coastal Stations with MF NAVTEX

PREFECTURA NAVAL ARGENTINA (Argentine Coast Guard) is refitting its main Coastal Stations in Buenos Aires, Mar del Plata, Comodoro Rivadavia and Ushuaia with new HF equipment (TX, RX and Antennas) and MF equipment (TX and Antennas).

Nautel VR1500TT transmitters are being installed and put on service by Ingenieros Electrónicos Asociados SRL (IEA) to broadcast MF NAVTEX messages. So far, Buenos Aires and Mar del Plata Stations are completed.

IEA spokesperson, Ing. Gerardo R. Manavella commented on his Nautel experience, "The installation of the equipment was without any difficulty... The Nautel equipment is very reliable and there have been no failures since installation... The customer, Prefectura Naval Argentina, is very satisfied with Nautel's equipment and they are thinking of buying more for the rest of the Coastal Stations."

[Read the full PNA MF NAVTEX story >](#)



Offshore NDB Applications & OSEA 2016

Specifically designed for use in harsh conditions including coastal and maritime environments, the Nautel Vector System offers a unique, patented solution to maintain system coverage regardless of undesirable antenna effects caused by environmental conditions.



Nautel has shipped thousands of NonDirectional Radio Beacon (NDB) systems for offshore oil platforms and support vessel applications. Our industry leading quality, reliability and customer support make Nautel the choice of NDB operators worldwide.

Nautel's Gary Galbraith will be attending OSEA, November 29 – December 2 in Singapore. To arrange a meeting, email: ggalbraith@nautel.com.

[Learn more about offshore NDB Systems >](#)

Reliable DGPS Coverage in All Conditions

You rely on your DGPS signal but coverage can be compromised by antenna effects such as insulator salt build-up or ground plane resistance changes.



Nautel Vector D transmitters for LF/MF DGPS utilize a unique, patented solution to maintain signal strength in the face of these and other undesirable antenna effects. The result is dramatically improved system coverage.

Nautel DGPS Highlights:

- o Constant field strength output.
- o Automatic resistance matching for higher availability.
- o Enhanced RSIM compatible remote command, control and monitoring for fewer site visits.
- o Power outputs of 200 W up to 3,000 W.

[Learn more about Nautel DGPS Solutions >](#)

NS72-36 Hull Mounted Sonar Amplifier

Nautel's new NS72-36 amplifier is a drop-in replacement for in-use hull mounted sonar units. It features 36 amplifier modules in a single 72" high rack to deliver 36 channels in the same footprint as the original amplifier, but is 50% lighter with 40% less volume.

Other highlights include: analog and optional digital audio inputs, optional IP port, configurable alarms, switch mode power supplies, state-of-the-art silicon carbide FETs, and 85% efficiency.

These amplifiers meet or exceed warship environmental requirements with partial/typical MIL STD shock, vibration, EMI and power supply filtering testing.

To learn more about Nautel Sonar Amplifiers [click here for production information and specifications](#) or email Jeff Smith: jeff.smith@nautel.com.



Installation, Set-to-Work, HAT and SAT of CTS-24 OMNI Sonar®

A Nautel C-Tech CTS-24 hull-mounted sonar was installed on an Asian Navy frigate and recently completed set-to-work as well as Harbour and Sea Acceptance testing.

Sonar components include transmitter/preamp, receiver and power control units as well as a transducer, transducer hoisting system and an operator console. The program was successfully completed, including at sea exercises with other naval ships.

[Learn more about Nautel CTS-24 OMNI Sonar >](#)



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